**Recovery Plan Action Status** 

Plan Name: Apalachicola Plants (4 spp.)

Plan Status: Final Plan Date: 22-Jun-94 Lead Agency: USFWS

Lead Office: Panama City Ecological Services Field Office 769-0552)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments

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Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	2	1.1	Management/monit oring in Apalachicola National Forest (AN)	Ongoing Current	FY 1995 - FY 1999		U.S. Forest Service	Management: General	Internal Field Assistance	Monitoring cost only. Management cost has not yet been determined. Management is an ongoing action conducted by the Forest Service. The ANF has a yearly 120,000+ acre prescribed burning program. According to L. Kirr (2009, pers. comm.), two to three compartments, i.e., management units, burned every year during the growing and dormant seasons. The ANF has an on-going timber-related management/monit oring study in the Hunt Timber Sale: pre- and post-harvest survey data have been collected in two sites (L. Kirn, 2009, pers. comm.). In addition, several years of monitoring data (e.g., documenting presence/absence in each population, and qualitative visual estimate of the density of white-birds-in-anest) have been collected in three permanent plots. However, these data were not available for evaluation.  Macbridea alba is found scattered under the Apalachicola National Forest Utility ROW of SR 65. Protective measures have been established with Talquin

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										Electric during annual maintenance and the upcoming pole replacement.
Florida skullcap (Scutellaria floridana)	1	1.22	Scutellaria floridana population biology in ANF	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Genetics, Research: Habitat Requirements, Research: Other Information, Research: Propagation	Species Expert	Pitts-Singer, Hanula, & Walker (2002) study on pollinators indicated that Megachilidae and Halictidae were the visitors the flowers.  Dr. Brenda Molano- Flores (Illinois Natural History Survey, Champaign, IL) and collaborators will be investigating seed germination and population genetics; is a two year project 2011- 2012.

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Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana)	Action Priority #	Action # 1.22		Action Status  Not Started	FY 2012			Management: Planning, Research: Genetics	Contract, Species Expert	Population genetic studies - The aims of the population genetic studies will be to determine: 1) genetic diversity within and among populations and 2) population genetic similarity. The results of these studies will inform seed collection and reintroduction efforts. The identification of populations with rare alleles or with high levels of genetic diversity will be a focus of these studies, as this will be important for the preservation of these species.  Investigators: Dr. Brenda Molano-Flores (rare plant conservation) Illinois Natural History Survey, 1816 South Oak Street, Champaign, IL 61820. molano@inhs.uiuc.edu Dr. Janice Coons (seed ecology) Eastern Illinois University, Biological Sciences Department, Life Sciences Bldg. 2070, 600 Lincoln Ave., Charleston, II 61920. jcoons@eiu.edu Dr. Jason Koontz (population genetics) Augustana College Biology
										Department, Science Building 315, 639 38th Street, Rock Island IL 61201. JasonKoontz@aug ustana.edu

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Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	3	2.1	Develop a regional report on right-of- way management in coastal savannah regions	Not Started			U.S. Forest Service, The Nature Conservancy, Florida Department of Transportation, Contractor	Management: Habitat Maintenance and Manipulation	Contract	
Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	3	2.2	Experiment with right-of-way management	Not Started			Wildlife Service, U.S. Forest	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	

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Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	2	3.1	Secure protection for the 4 plants outside AN	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Private landowners, Landowners and Managers	Acquisition	Internal Technical Assistance	Protections off of ANF for telephus spurge include: RGP and North Glades on PCB (St Joe easements) and Shallow Reed Site conservation easement in Gulf County. Other lands that at least one of these 4 include Tates Hell SF, Lathrop Island (BLM and St Joe private), Brenda Ward private landowners has a few skullcaps, St Joe Buffer Preserve has skullcaps, St Joe Buffer Preserve has skullcaps, or the skullcaps or protecting it through conservation easements is NOT included here.  This is an ongoing action. To date, about nine protected P. ionantha population on the St. Joseph Buffer Preserve (SJBP), Gulf County; one population (but potentially extirpated) at Box-R Wildlife Management Area (Box-R WMA), Franklin County; and seven populations at Tate?s Hell State Forest, Franklin County.
										populations of M. alba have been

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										secured: two populations on the St. Joseph Buffer Preserve (SJBP), Gulf County; one population at Lathrop Bayou, Bay County; one population at Box-R Wildlife Management Area (Box-R WMA), Franklin County; and six populations at Tate?s Hell State Forest, Franklin County. For S. floridana, 7 protected populations have been secured: three populations on the St. Joseph Bay State Buffer Preserve (SJBSBP), Gulf County; one population at Lathrop Bayou, Bay County; and three populations at Tate?s Hell State Forest (THSF), Franklin County. These are public lands and therefore, protected under the Endangered Species Act.
										To date, six protected populations have been secured for telephus spurge: four populations on the St. Joseph Buffer Preserve (Gulf County), and the North Glades and the Breakfast Point Mitigation Bank (BPMB) populations (Bay County).

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										the: 1) Bureau of Land Management (BLM) and the St. Joe Timberland Company (Timberland Company) for the Lathrop Bayou (BLM 2003), and 2) Florida Department of Environmental Protection for the SJBSBP. Recently, the Plant Conservation Program of the Florida Division of Forestry provided management recommendations, i.e., application of prescribed fire, to assist THSF land managers in prioritizing stands that contain federally threatened plant species
Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	2	3.3	Implement management and monitoring for protected sites outside ANF	Ongoing Current	Prior to FY 1995		Private landowners, Universities, Florida Department of Environmental Protection, Florida Department of Agriculture and Consumer Services, including Forestry Division, Landowners and Managers		Labor type not yet selected	Regular mgt occurs on Tates Hell, St Joe Buffer Preserve, St Joe lands in RGP, Brenda Wards property. No formal monitoring plans are in place that we are aware.

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Godfrey's butterwort (Pinguicula ionantha), Florida skullcap (Scutellaria floridana), White birds-in-a-nest (Macbridea alba), Telephus spurge (Euphorbia telephioides)	3	5	Garden propagation and reintroduction	Ongoing Current	FY 2006	FY 2008	Botanical Gardens, U.S. Fish and Wildlife Service, Center for Plant Conservation	Research: Propagation	Labor type not yet selected	Ping is sold on open market. Contract with Historic Bok Tower initiated FY 06 for ex situ research and protection on spurge, skullcap, and butterwort. Birds in a nest already held in ex situ by HBok Sanctuary. Tested transplant occur with minimization measures on St Joe lands into conservation easement area with minimal success to date (drought in spring fy 2006 may be reason not more successful).
										Although conserving M. alba in-situ is the best option, an ex-situ collection of established seedlings and adults is recommended.
										Dr. Brenda Molano- Flores (Illinois Natural History Survey, Champaign, IL) and collaborators will be investigating seed germination requirements.